



# Army Sustainable Range Program

***GIS Session***  
**ITAM**  
**Installation Workshop**  
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**Sustaining Readiness  
Preserving  
DoD's Training and Testing  
Capability  
while  
Protecting the Environment**





# **“RRPI” - Readiness & Range Preservation Initiative**



# Legislative Clarification - Range and Readiness Preservation Initiative



## PROPOSED LEGISLATIVE CLARIFICATION

## AREA OF LEGISLATION

**Amend definition of “harassment” to exclude insignificant behavior changes**

**Marine Mammal  
Protection Act  
(MMPA)**

**Confirm that INRMPs remove the need for critical habitat designation on military installations <sup>1</sup>**

**Endangered  
Species Act**

**Make explicit that DoD must get permit for intentional takes but not unintentional takes of migratory birds <sup>1</sup>**

**Migratory Bird  
Treaty Act**

**Amend definition of “Solid Waste” to protect DoD management of operational ranges**

**Resource  
Conservation &  
Recovery Act  
(RCRA)**

**Clarify the definition of “Release” to protect DoD management of operational ranges**

**CERCLA**

**Relax CAA conformity requirements for readiness**

**Clean Air Act (CAA)**

**Cooperative Buffer Zone Acquisition Authority <sup>1</sup>**

**N/A**

**Conveyance of Surplus Property for Conservation**

**N/A**



# Challenge: *Three Range Management Perspectives*



**Ranges as  
the  
Environment**

**Ranges as a  
part of Training  
Doctrine**



**Ranges as  
Facilities  
Infrastructure**





# *Army Sustainable Range Program (SRP)*

**GOAL: Maximize the  
*capability, availability, and  
accessibility* of ranges and  
training land by minimizing  
restrictions brought about by  
external factors.**



# Army SRP



## Three Tenets:

- Information Excellence – best data on range
- Integrated Management – multi-discipline
- Outreach - Why we train.



- Ranges as Training Enablers.
- Ranges as Facilities.
- Ranges as the Environment.

**GOAL: Maximize the capability, availability, and accessibility of ranges and training land by minimizing restrictions brought about by external factors.**



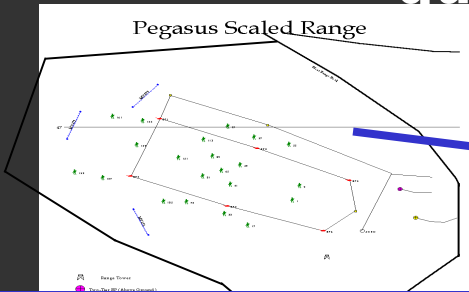


# “Enterprise” GIS for Ranges



**INFORMATION EXCELLENCE** by maintaining accurate range data to protect readiness and answer basic questions on how we manage

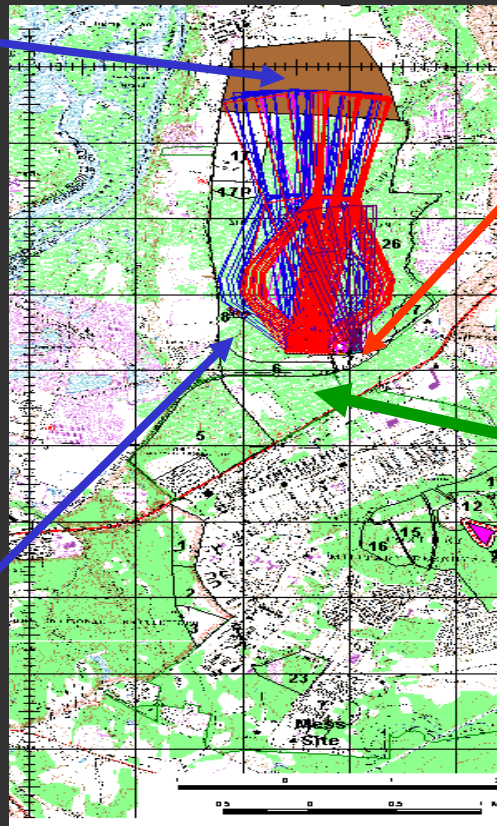
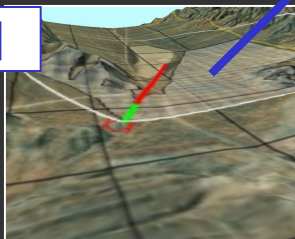
Pegasus Scaled Range



## RANGE OPS & MOD

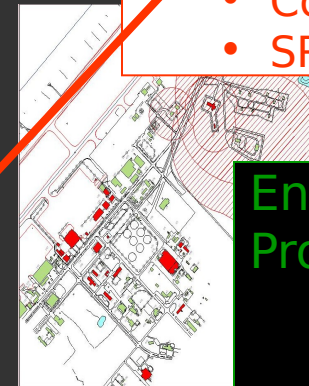
- Safety
- Planning
- Use
- Construction

ITAM



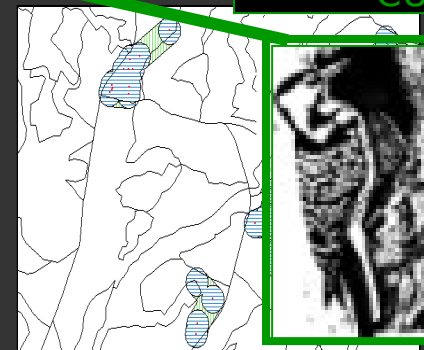
## Facilities Management

- Accountability
- Condition - ISR
- SRM - Maintenance



## Environmental Program

- TES
- SOILS
- VEGETATION
- CULTURAL SITES



With USMC

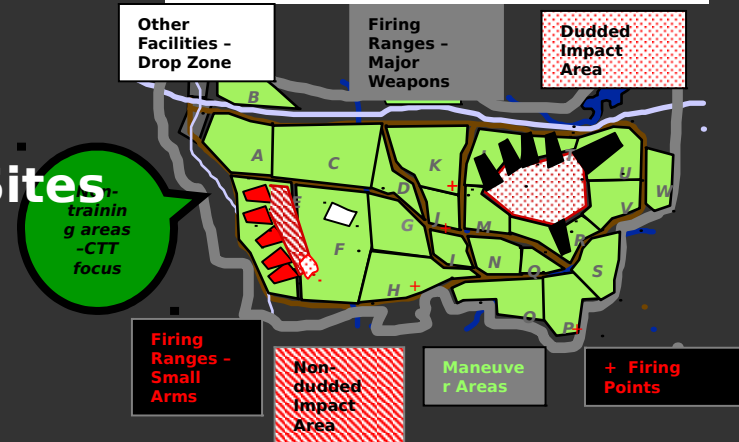
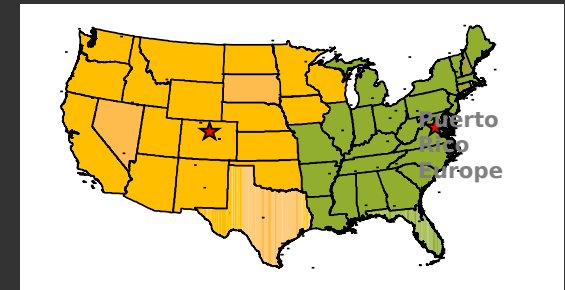




# A/I Range Inventory



- **7<sup>th</sup> and Final Inventory Quarter Apr - Jun 02**
  - 318 complete
  - 84 in process
  - 132 inventory
- **Inventory End State - DEC 02**
  - Approx 550 Installations/Training Sites
    - Over 10,000 Ranges
  - Army-Wide Standard Range Data
    - ARID Tables/Range Maps
    - **GIS Data**
    - Ancillary Data
    - Discrepancy Reports with Real Property Accounting System
  - Enable Army-Wide Reporting, Maps, and Queries
- **Army will sustain A/I Inventory Data - FY03 (+)**



| ITAM CAT                | FREQ | NO         | NO/YR      |
|-------------------------|------|------------|------------|
| Cat I                   | 2    | 35         | 18         |
| Cat II                  | 2    | 22         | 11         |
| Cat III                 | 3    | 31         | 10         |
| Cat IV                  | 4    | 40         | 10         |
| Cat V                   | 5    | 117        | 23         |
| Cat VI                  | 10   | 262        | 26         |
| <b>TOTAL</b>            |      | <b>507</b> | <b>98</b>  |
| <b>PLUS MILCON ADDS</b> |      | <b>10</b>  | <b>108</b> |



# ISR Part I

## Encroachment Standards

### FACILITY

#### **Firing Ranges:**

- Indiv. Weapons
- Small Arms Qual
- Crew-served/  
Major Weapons
- Multi-Purpose
- Special Purpose
- Impact Areas

#### **Training Land:**

- Mounted
- Dismounted

### CRITERIA

- Limitations on Use
  - Times
  - Days
  - Seasons
- Limitations on Type of Training Activity/Event/ Task(s)
- Limitations of Types of Munitions Used
- Limitations by Acres:
  - Tng Area – specific restrictions
  - Installation – wide

### STANDARD

**GREEN =**  
**No Restrictions**

**AMBER =**  
**“Some” Restrictions**  
**(1 to 15 %)**

**RED =**  
**“Major” Restrictions**  
**(over 15%)**

#### **Assessment:**

- **For Ranges - Based on Available Range Days / Required Range Days**
- **For Land - Based on Available Acre Days / Required Acre Days**

**Using  
GIS**



# RFMSS



- Computer-based Range Scheduling, Operations, and Information Management.
- Displays Facility Types, Capabilities, and Constraints.
- Incrementally increasing use of spatial data and displays
- RFMSS 2002
  - Centrally Funded by HQDA
  - Replace All HW – Standardize all SW
  - Upgrade SW in 5 Increments
  - Sustain: Support & Training (4 X Year)



- #1: SDZ, High Perf A/C, **GIS Upgrade**
- #2: ITAM
- #3: Reports, Interface & Scheduling Enhancements
- #4: Logistics, Encroachment
- #5: **Full, 3-D GIS**



# Professional Development

**Action: Develop a multi-discipline training program for Sustainable Range Management**

**Training & Doctrinal Skills**

**Engineering Skills**

**Environmental Skills**

**Concept:**

**FY02 - Skills Analysis**

**FY03 - Functional Course  
Development**

**FY04 - Career Track**

**Functional Areas:**

- |                                                |                                 |
|------------------------------------------------|---------------------------------|
| <b>1) Range Plans and Operations</b>           | <b>5) Overall Management</b>    |
| <b>2) Range Modernization</b>                  | <b>6) Training and Doctrine</b> |
| <b>3) Training Land Sustainment Impact,</b>    | <b>7) Environmental</b>         |
| <b>4) Geographical Information and Systems</b> | <b>Compliance Encroachment</b>  |



# Integrated Planning

- INRMP
- ICRMP
- Endangered Species Management Plan
- Integrated Pest Management Plan
- Erosion Control Plan

**Installation  
Master Plan**

**RANGE  
DEVELOPMENT PLAN**

**Master Plan  
for Ranges**

**ITAM Workplan**

## Integrated Planning

- Reduced constraints on training.
- Smarter land use/land management decisions.
- Use of **GIS** to graphically display operational overlay.
- Integration of mission into EMS planning, goals, objectives, and measures of merit.

***Automated  
Range  
Development  
Tool***



# Automated Range Development Plan

- **Army G-3 is planning to develop an Automated Range Development Planning tool.**
- **Tabular and *spatial data* integrated and available to the range manager:**
  - *Mission Requirements*
  - *Range Facilities and Instrumentation*
  - *Utilization/Throughput Rates*
  - *Environmental Conditions*
  - *Safety Factors (Surface Danger Zones)*
  - *Encroachment Issues*
  - *Environmental Management Plans*
  - *Munitions Expenditures/Distributions*
- **Sustainable Range Complex**
- **Will support integrated management.**

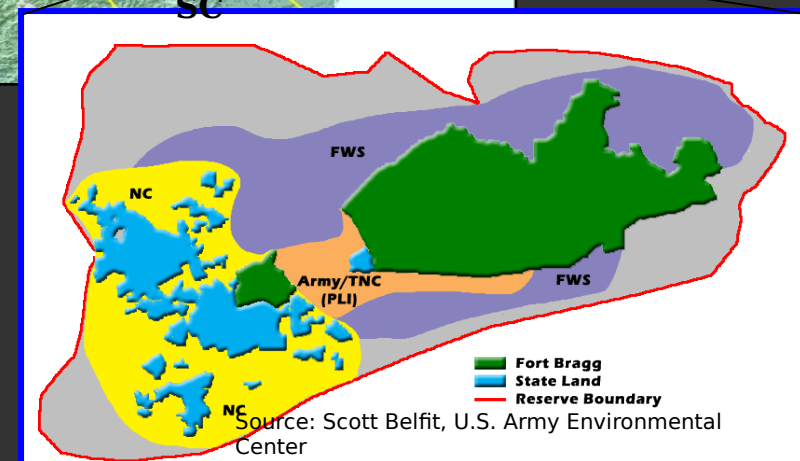
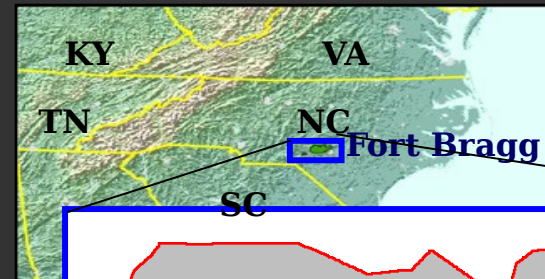
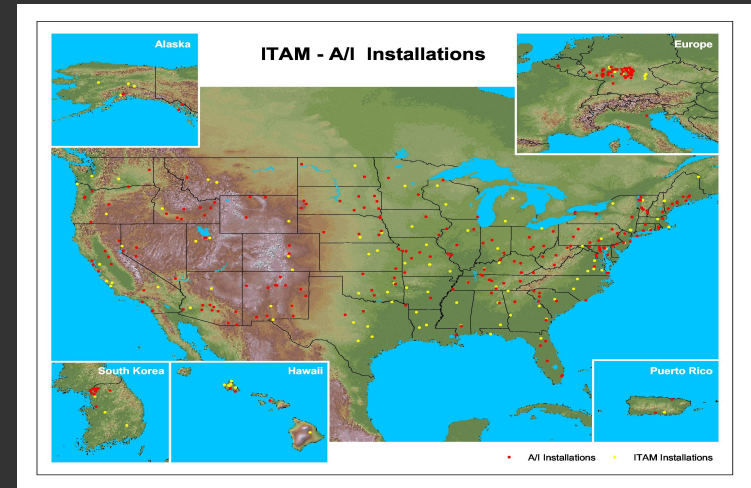
**With  
USMC**



# Land Use

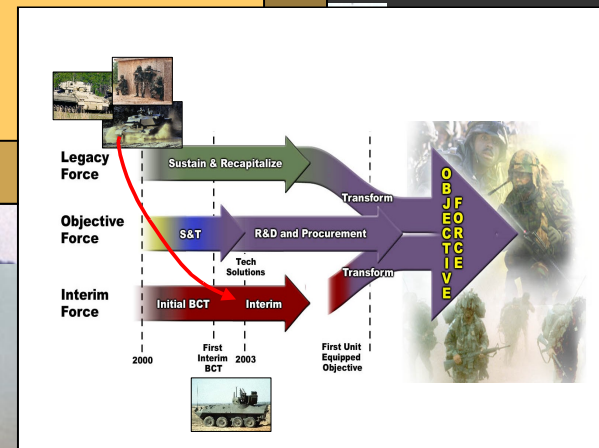


- Ft Bragg: “Private Lands Initiative” = Proven Success
- FY03 Initiative – *GIS Based*
  - Examine land ownership and land use adjacent to major Army training installations
  - Identify opportunities for cooperative land use agreements (buffers)
  - Create a strategy for Army-wide application of Fort Bragg “PLI”

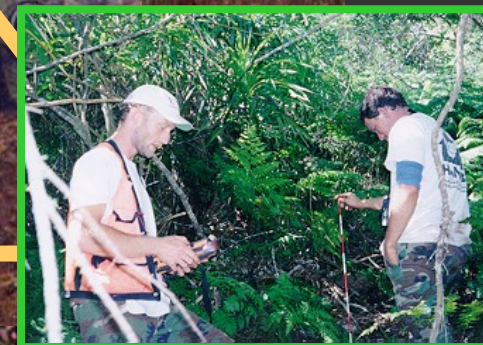




# Sustainable Range Program (SRP)

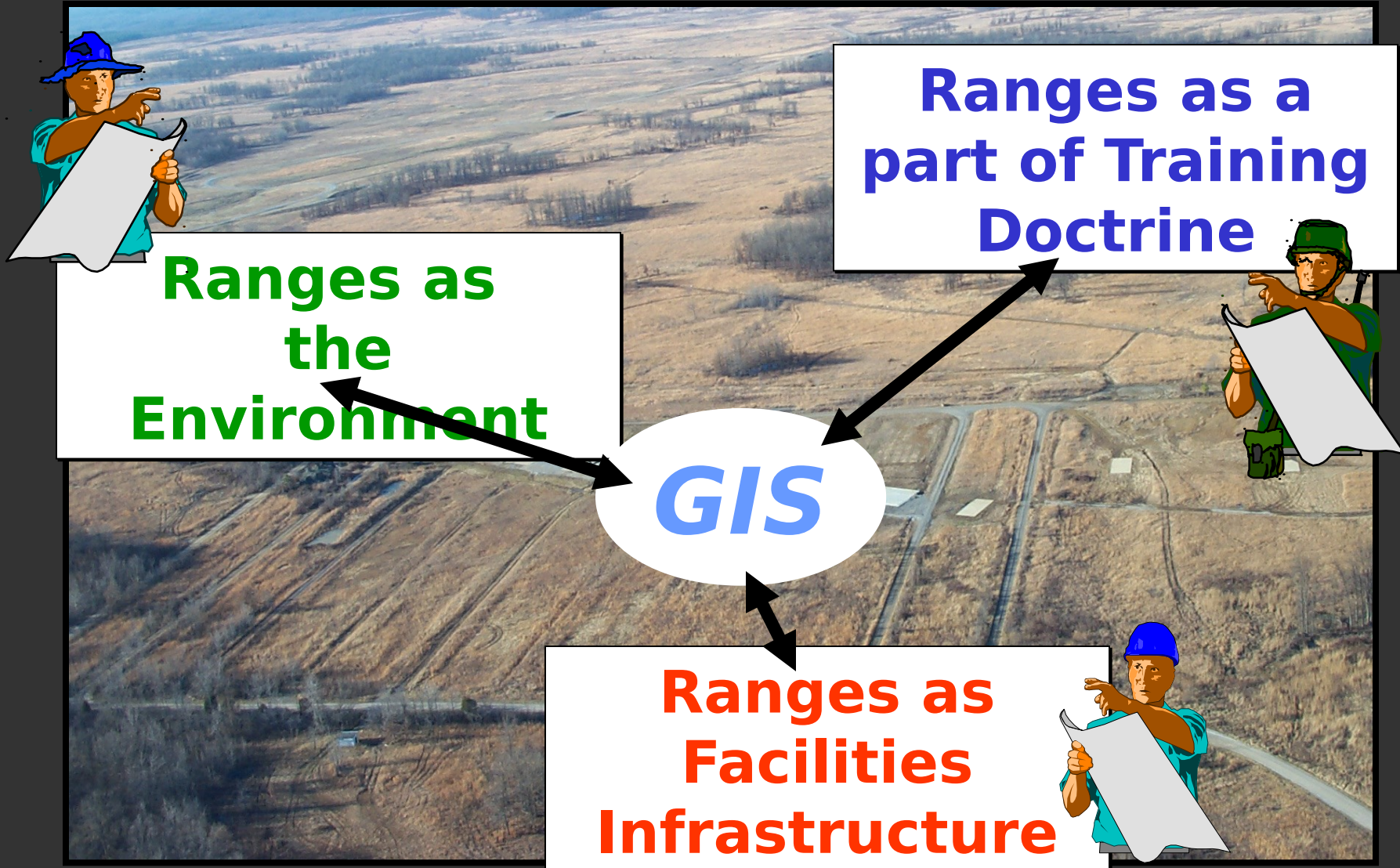


*Mission  
Sustainment*





# Challenge: *Three Range Management Perspectives*





# Operation Enduring Freedom

